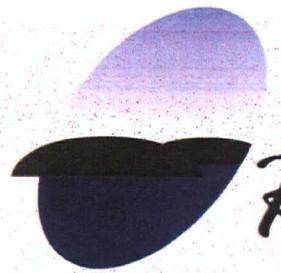


ASDSF 20-244 VII



5219 N. Shirley St. Suite 100, Ruston, WA 98407

Point
Ruston

RECEIVED

JUN 20 2012

OFFICE OF

ENVIRONMENTAL CLEANUP

June 15, 2012

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 192, May 2012
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. The report is organized to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Steve Teel - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



1336819

Monthly Report 192, May 2012

Operable Unit 02

Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. Met with EPA on May 25th for a Waterwalk CMP pre-construction meeting as well as an EPA coordination meeting.
2. Continued negotiations with Metro Parks Tacoma regarding Slag Peninsula RA and ancillary related cleanup matters.
3. Continued negotiations with DNR and State of Washington regarding aquatic land RA of state-owned aquatic land sediments.
4. Completed Temporary Interim Permanent Cap Plan, Site Wide Storm water Plan, amended Phase I CMP, and Waterwalk CMP, and Construction Health and Safety Plan.
5. First draft of Air Monitoring chapter of Sequence of Development and Occupancy Plan completed.
6. Continued construction of the improvements associated with the Master Infrastructure CMP, including utilities and roads.
7. Continued construction of the improvements associated with Phase 1 CMP.
8. Began grading of 9 acre Waterwalk area and preparing for subgrade stormwater and other ancillary utilities.
9. Continued drafting post-construction report of Shoreline Armoring RA for submittal to EPA.
10. Site wide maintenance conducted after storm events, including replacement of silt fences and other storm water BMPs, as well as exclusion zone fencing. On-going site maintenance and monitoring continues, including all requirements under the Site Wide Construction Health and Safety Plan.
11. Continued weekly site-inspection reports (see attached).
12. Maintained clean work areas and roads.
13. Training activities include the following:
 - Site Safety Orientations (Clean Zone) were held for one hundred seventy six (176) personnel of various companies:
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) Hydrometrics employee
 - Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. One (1) Point Ruston employee (Arsenic Analysis)
 - ii. One (1) Hydrometrics employee (Arsenic Analysis)
 - iii. Two (2) Olson Brothers employees (Arsenic Analysis)
 - iv. Twenty one (21) Point Ruston employees (First Aid/CPR)

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collected by Point Ruston from the outfall locations on May 7th, 14th, 21st, and 29th. Results from samples collected are attached. There were no exceedances.

On April 20, 2012 storm water passing through the OSW2 location was diverted into the new City of Tacoma storm water main (Edwards Street Outfall); therefore no storm water is entering the South Outfall, and therefore monitoring has been discontinued. Inspection of the South Outfall indicated that no flow is occurring. Seawater does accumulate at high tides. Sampling at the South Outfall location was suspended beginning in May, 2012 due to lack of sampling media. Should the South Outfall be utilized sampling will again be commenced.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 100 gallons per day on the LCRS. Point Ruston shipped 4,632 gallons of leachate (4.26 mg/L arsenic) on May 11th. Sample results are attached.
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected April 23rd through June 1st are attached. There were no exceedances.

Note: Perimeter air monitoring samples collected the last week of May were analyzed with a detection level of 0.00015 µg/m³. Previous samples have been analyzed with a detection level of 0.05 µg/m³.

4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on May 9th and 15th during Waterwalk remediation activities. Results for samples collected are attached. There were no exceedances.
5. Point Ruston performs subsurface methane gas monitoring. In 2009 a passive gas extraction system was installed under the western side of the building 2B foundation, as part of the construction associated with the Phase 1 CMP. In 2011, four gas monitoring wells were installed within the boundaries of the eastern half of building 2B. The Gas Monitoring Data Log and field worksheet for the month of May are attached. No methane has been detected.
6. Point Ruston performs miscellaneous soil sampling on site related to its various ongoing RA work and development. Contaminant sampling was conducted on May 3rd to determine arsenic and lead levels in soils excavated from the Baltimore road improvements and stockpiled on Stack Hill Lot 18. These spoils will be used as backfill of the temporary construction stormwater trench on Stack Hill, which is no longer necessary or in use.

Sample Results (Sample results also attached):

As = 23.93 & 13.16 ppm
Pb = 33.46 & 22.86 ppm

Soil sampling was also conducted on May 25th and 30th to determine arsenic and lead levels in soils at the surface and base of trenching done to complete a storm water connection between Baltimore and the BNSF tracks. These trench spoils were taken to the lower site.

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

Sample Results (Sample results also attached):

Steep slope Pre-Trench (6")

As = 474.29 ppm

Pb = 212.02 ppm

Trench Base:

As = 11.6 ppm

Pb = 22.31 ppm

C. Work Plans and other deliverables completed and submitted during the previous month.

1. Plans and Documents included the following:

Temporary Cap Plan – Reviewed draft plan with EPA at coordination meeting; final draft to be submitted in June.

Site Wide Storm Water Plan -- Reviewed draft plan with EPA at coordination meeting; final draft to be submitted in June.

Construction Health & Safety Plan (CH&SP) – Submitted at coordination meeting.

Waterwalk CMP - Submitted to EPA at coordination meeting.

Phase 1 Construction Management Plan (CMP) – Submitted to EPA.

Ruston Way CH&SP Plan – Completed and submitted to EPA for Ruston Way opening.

Sequence of Development and Occupancy Plan (SDOP) – Completed draft air monitoring chapter; completing replies to EPA comments. To be re-submitted in June.

Operations Maintenance, and Monitoring Plan (OMMP) – Point Ruston continuing edits and scheduled for submittal following EPA comments on SDOP.

CC&Rs and HOA OMMP budget– Point Ruston continuing edits and restructuring. Removing environmental specific conditions and placing into stand-alone Environmental CC&R document - submittal anticipated following receipt of EPA's comments to SDOP.

Biological Assessment South Outfall Construction (Edwards Street)/

BA South Outfall Flow (Edwards Street) – Re-submitted updated BA for new Edwards Street flows.

BA Shoreline Stabilization – Continued draft post-inspection completion report; awaiting finalized as-built drawings; tentatively schedule to be submitted.

2. Remedial Action included the following tasks:

- OCF construction activities:

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

- Maintained leachate collection system.
- Inspected storm drain system, vaults and cover.
- Stack Hill construction activities:
 - Maintained erosion and surface water controls; Maintained site perimeter fence and signage at the north end of Stack Hill. Stockpiling materials for completed filling of construction storm water trenches
 - Planning for the closure of the temporary storm water ditch.
- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence and exclusion zone fencing. Ruston Way closed to public traffic to accommodate MICMP construction of ROW and other public utilities.
 - Continued site-wide dust monitoring and control through site and access road watering, as needed. (None during wet weather events.)
 - Maintained air-monitoring program per CH&SP
 - Completed shoreline armoring BA, construction on going, and trenching and armoring construction on going.
 - Main Site Access is located at 54th & Bennett Street, Ruston WA. The physical address is 5397 N. Bennett Street, Ruston, WA 98407. The south gate (Ruston Way) is only accessible for emergency access or as necessary for MICMP/LID construction to allow completion of roadway and light installation with an anticipated completion date in June.

D. *Actions scheduled for the next six weeks.*

1. Point Ruston to complete MICMP public roads and utilities in June.
2. Point Ruston to begin construction of Waterwalk CMP improvements in June.
3. Point Ruston to submit post completion construction report for shoreline armoring and apply for Certificate of Completion for this element of the RA, per the Consent Decree.
4. Begin final mass grading for Temporary Impervious Cap, and begin construction of stormwater system and liner and gravel cover system.

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

5. Continue CH&SP air monitoring during RA activities.
6. Meet with EPA management regarding occupancy plans and continue discussion of SOW schedule extension.
7. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan ("OMMP")
8. Continue discussions with Metro Parks Tacoma regarding Slag Peninsula property; begin initial work on Peninsula Park CMP.
9. Continue discussions with DNR and State of Washington regarding aquatic land RA.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction and sales & marketing efforts

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure
- e. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

1. Point Ruston's is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID construction is ongoing as is Phase 1. The framing of building 2A is near completion and installation of the windows and roof began. First occupancy tentatively scheduled for Fall 2012.

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Major public announcement of retail tenants, including Marlene's Market and Deli, along with Century Theatre and Silver Cloud Hotel, which will anchor the retail core.
2. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
3. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property to the City of Tacoma.
4. Continue to work in coordination with Tacoma Yacht Club and Metro Parks regarding Slag Peninsula cleanup and Yacht Club Rd. construction.
5. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
6. Point Ruston to continue discussions with DNR related to aquatic land cleanup issues.

**Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site**

WEEKLY

SITE

INSPECTION

REPORTS



Weekly Site Inspection Report No.

2012-0429

Week of:

4/29 – 5/5, 2012

Inspector:

Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Stockpiles: Envirotac II Plastic Packed Grass	G	F	P	Y	N
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Cameras: Lower Site (Other)	G	(F)	P	Y	(N)
	G	(F)	P	Y	(N)

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2012-0429

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS		
Health & Safety Plans:					UNDER REVIEW
Site Superintendent	G (F)	P	Y	N	
Construction Super.	G (F)	P	Y	N	
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: 4/30/12 SOMEONE UNWILLYA CHAINLINK TO CRAWL THROUGH AT 51ST STREET. DAMAGE WAS REPAIRED IMMEDIATELY.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	29	N	N No RA ACTIVITY
Mon	30	Y	N OSW2 (PULL METAL PLATE) / BALTIMORE GRADING (SIDEWALK PREP)
Tue	5/1	Y	N RUSTOWAY (STREET SIGNS) / BALTIMORE GRADING
Wed	2	Y	N BALTIMORE (POUR SIDEWALKS)
Thu	3	Y	N BALTIMORE (FORM CURB) / RUSTOWAY (WALL RAILING)
Fri	4	Y	N RUSTOWAY (LANDSCAPES) / BALTIMORE GRADING
Sat	5	N	N No RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	29	49°/59°; WEST WIND 2 MPH/GUST 17 MPH, PRECIP. 0.12" (LATE EVE)
Mon	30	44°/48°; NORTH WIND 2 MPH/GUST 19 MPH, PRECIP. 0.26" (SCATTERED)
Tue	5/1	42°/50°; SSW WIND 7 MPH/GUST 17 MPH, PRECIP. 0.06" (AFTERNOON)
Wed	2	41°/51°; SSW WIND 3 MPH/GUST 10 MPH, PRECIP. 0.01" (LATE MORNING)
Thu	3	44°/49°; SW WIND 4 MPH/GUST 21 MPH, PRECIP. 0.58" (ALL DAY)
Fri	4	43°/55°; SW WIND 8 MPH/GUST 21 MPH, NO PRECIPITATION
Sat	5	40°/55°; SW WIND 5 MPH/GUST 11 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE:

5/7/2012

SIGNED:

Tim A.

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2012-0506

Week of: 5/6 – 12, 2012 **Inspector:** Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Stockpiles: Envirotac II Plastic Packed Grass	G	F	P	Y	N
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Cameras: Lower Site (Other)	G	(F)	P	Y	(N)
	G	(F)	P	Y	(N)

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2012-0506

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS		
Health & Safety Plans:					UNDER REVIEW
Site Superintendent	G	E	P	Y	N
Construction Super.	G	F	P	Y	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: 5/9/12 - EXPOSURE MONITORING FOR WORK ON WATERWALK.
 5/6/12 - TACOMA CITY MARATHON

Air Monitoring:

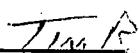
Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	6	Y	N TACOMA CITY MARATHON
Mon	7	Y	N BALTIMORE SIDEWALK PREP / J.U.T. (PULL WIRE) / MOVE FISH MIG PILS
Tue	8	Y	N J.U.T. (PULL WIRE) / BALTIMORE (SIDEWALK TANK) / WATERWALK GRADING
Wed	9	Y	WATERWALK GRADING / J.U.T. (PULLING WIRE) / BALTIMORE GRADING
Thu	10	Y	N RUSTON WAY (CONCRETE LIGHT BUSES) / WATERWALK GRADING (HAILING DEBRIS)
Fri	11	Y	N PUMBLEAGATE TANK / WATERWALK (GRADING) / RUSTON WAY (PAVING)
Sat	12	N	N NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	6	41°/61°; NORTH WIND 2 MPH/GUST 10 MPH, NO PRECIPITATION
Mon	7	46°/70°; NNE WIND 2 MPH/GUST 8 MPH, NO PRECIPITATION
Tue	8	47°/60°; NWSW WIND 4 MPH/GUST 11 MPH, NO PRECIPITATION
Wed	9	43°/57°; NE WIND 3 MPH/GUST 12 MPH, NO PRECIPITATION
Thu	10	39°/57°; NORTH WIND 3 MPH/GUST 11 MPH, NO PRECIPITATION
Fri	11	42°/61°; NNE WIND 3 MPH/GUST 10 MPH, NO PRECIPITATION
Sat	12	45°/71°; NNE WIND 2 MPH/GUST 10 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 5/14/2012

SIGNED: 

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2012-0513

Week of: 5/13 – 19, 2012 **Inspector:** Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y (N) Locked
	(G)	F	P	Y (N) Locked
	(G)	F	P	Y (N) Locked
	(G)	F	P	Y (N) TRIMMERS BRUSH Around GATE
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
	G	F	P	Y N
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y (N) CLOSED
	(G)	F	P	Y (N) CLOSED
	(G)	F	P	Y (N)
	G	F	P	Y N
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
	(G)	F	P	Y (N) STARTERS WADDLES Along WATERWORK
	G	F	P	Y N
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
Stockpiles: Envirotac II Plastic Packed Grass	G	F	P	Y N NONE
	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
	G	F	P	Y N
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y (N)
	(G)	F	P	Y (N)
	G	F	P	Y N
Cameras: Lower Site (Other)	G	(F)	P	Y (N)
	G	F	P	Y N

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2012-0513

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans:					
Site Superintendent	G	F	P	Y	N
Construction Super.	G	F	P	Y	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: CUTTING NEW ASPHALT FOR CROSSWALKS & MANHOLE LIDS
 FINISHING WIRE CAPS AROUND GUARDRAIL POSTS. PULLING WIRE & MAKING CONNECTIONS ON RUSTON SIDE OF SITE.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	13	N	No RA ACTIVITY
Mon	14	Y	WATERWALK GRADING / RUSTON WAY MANHOLES / RUSTON POWER
Tue	15	Y	WATERWALK GRADING / " " " / " "
Wed	16	Y	WATERWALK GRADING / " " " / " "
Thu	17	Y	EQUIPMENT IMPORT & EXPORT / BLOCK/WIRE FINISHING / " "
Fri	18	Y	WATERWALK GRADING / RUSTON WAY MANHOLES / BLOCK WIRE / " "
Sat	19	N	No RA ACTIVITY

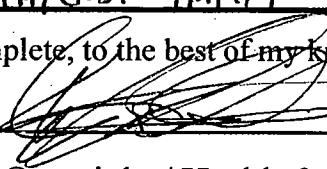
WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	13	49°/72°; NNE WIND 3 MPH / GUST 10 MPH, NO PRECIPITATION
Mon	14	54°/74°; NNE WIND 3 MPH / GUST 9 MPH, NO PRECIPITATION
Tue	15	50°/73°; NSW WIND 4 MPH / GUST 9 MPH, NO PRECIPITATION
Wed	16	49°/66°; WSW WIND 5 MPH / GUST 12 MPH, NO PRECIPITATION
Thu	17	43°/63°; SW WIND 4 MPH / GUST 14 MPH, NO PRECIPITATION
Fri	18	45°/60°; SW WIND 4 MPH / GUST 13 MPH, NO PRECIPITATION
Sat	19	42°/55°; NNE WIND 2 MPH / GUST 7 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 5/21/2012

SIGNED:

 Tim R.

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2012-0520

Week of:

5/20 – 26, 2012

Inspector:

Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y (N)	CLOSED
	(G)	F	P	Y (N)	CLOSED
	(G)	F	P	Y (N)	
	G	F	P	Y N	
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y (N)	ADDING BERMS AS NEEDED
	(G)	F	P	Y (N)	ADDING WADDLES AS NEEDED
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Stockpiles: Envirotac II Plastic Packed Grass	(G)	F	P	Y (N)	- NONE -
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Cameras: Lower Site (Other)	G	(F)	P	Y (N)	
	G	F	P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans:					
Site Superintendent	(G)	F	P	Y	(N) <i>COMPLETE + IN FINAL REVIEW</i>
Construction Super.	G	F	P	Y	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: ~~TURNED~~ SUBMITTED FINAL H&SP FOR REVIEW. 5/25
 WORKERS ON INSTALLATION OF ON-SITE WEATHER STATION. TEST
 RUN OVER 3-DAY WEEKEND.
 1ST AID/CPR TRAINING FOR POINT RUSTON WORKERS 5/21 + 23.

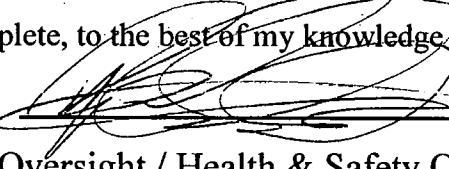
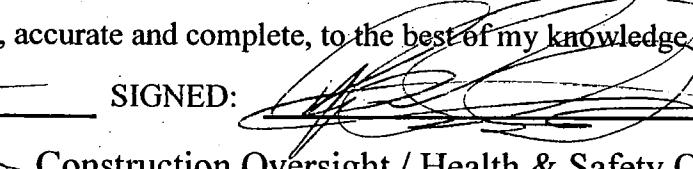
Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	20	N	No RA ACTIVITY
Mon	21	Y	RUSTON W/WY MANHOLES / SORTING MATERIALS AT N. END
Tue	22	Y	RUSTON W/WY MANHOLES / WATERWALK GRADING / RUSTON POWER
Wed	23	Y	" " " / RUSTON Power (WIRE PULLING)
Thu	24	Y	WATERWALK GRADING / EQUIPMENT DECON /
Fri	25	Y	PRE-SAMPLING STEEP SLOPE BNSF + BALTMORE /
Sat	26	N	No RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	20	53°/57°:SW WIND 2 MPH / GUST 10 MPH, PRECIP. 0.29" (AFTERNOON - EVE)
Mon	21	50°/60°:SSW WIND 4 MPH / GUST 12 MPH, PRECIP. 0.55" (SCATTERED ALL DAY)
Tue	22	46°/54°:SSW WIND 5 MPH / GUST 15 MPH, PRECIP. 0.28" (SCATTERED ALL DAY)
Wed	23	47°/56°:SSW WIND 8 MPH / GUST 11 MPH, PRECIP. 0.04" (SCATTERED)
Thu	24	47°/61°:NNW WIND 3 MPH / GUST 10 MPH, NO PRECIPITATION
Fri	25	45°/69°:NE WIND 3 MPH / GUST 14 MPH, PRECIP. 0.07" (EVE) <small>LIGHTNING</small>
Sat	26	48°/71°:SW WIND 5 MPH / GUST 19 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 5/28/2012SIGNED: Tink5/29/12TITLE:  Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2012-0527

Week of:

5/27 - 6/2, 2012

Inspector:

Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA		OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G) F (G) F (G) F (G) F	P P P P	Y Y Y Y (N) (N) (N) (N)	
Signage: Gates Perimeter Safety (Other)	(G) F (G) F (G) F G F	P P P P	Y Y Y Y (N) (N) (N) N	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G) F (G) F (G) F G F	P P P P	Y Y Y Y (N) (N) (N) N	CLOSED CLOSED
BMPs: Berms Waddles Silt Fence (Other)	(G) F (G) F (G) F G F	P P P P	Y Y Y Y (N) (N) (N) N	
Strom drains clean: Lower Site Stack Hill	(G) F (G) F	P P	Y Y (N) (N)	
Stockpiles: Envirotac II Plastic Packed Grass	G F (G) F (G) F G F	F P P P	Y Y Y Y (N) (N) (N) N	None
Dust: Traffic areas Excavation area (Other)	(G) F (G) F G F	P P P	Y Y Y (N) (N) N	
Fencing: Site Perimeter Zone Separation (Other)	(G) F (G) F G F	P P P	Y Y Y (N) (N) N	
Cameras: Lower Site (Other)	G (F) G (F)	P P	Y Y (N) (N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2012-0527

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans:					UNDER REVIEW
Site Superintendent	G	F	P	Y	N
Construction Super.	G	F	P	Y	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: WEATHER STATION INSTALLATION WORK

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 27	N	N	NO RA ACTIVITY
Mon 28	N	N	NO RA ACTIVITY
Tue 29	Y	N	NO RA ACTIVITY / OLSON TRENCH (BALTIMORE & BNSF)
Wed 30	Y	N	STORM CONSTRUCTION (BALTIMORE & BNSF)
Thu 31	Y	N	" " " / GRADING ACCESS ROAD TO POND
Fri 6/1	Y	N	WATERWALK GRADING / MOVE & PLACE STOCKPILE ON LOT 1A
Sat 2	N	N	NO RA ACTIVITY

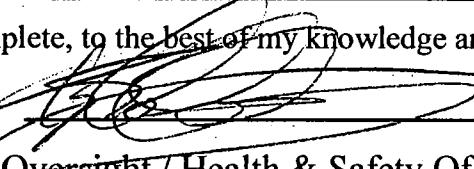
WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 27	52°/62°; SW	WIND 5 MPH / GUST 13 MPH, NO PRECIPITATION
Mon 28	49°/60°; SW	WIND 6 MPH / GUST 15 MPH, NO PRECIPITATION
Tue 29	44°/60°; SW	WIND 3 MPH / GUST 11 MPH, NO PRECIPITATION
Wed 30	51°/65°; WEST	WIND 2 MPH / GUST 7 MPH, PRECIP. 0.01" (MIDNIGHT)
Thu 31	53°/64°; SW	WIND 4 MPH / GUST 12 MPH, PRECIP. 0.07" (MDRN)
Fri 6/1	53°/66°; SW	WIND 4 MPH / GUST 14 MPH, PRECIP. 0.3" (SCATTERED)
Sat 2	50°/63°; SW	WIND 5 MPH / GUST 14 MPH, PRECIP. 0.01" (LATE MORNING)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 6/4/2012

SIGNED:

 Tim R.

TITLE: Construction Oversight / Health & Safety Officer

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

**OUTFALL
MONITORING
DATA**

Table 1. Summary of May 2012 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.344	68.80%	0.072	14.45%	0.154	30.80%
OSW2	0.031	6.10%	0.007	1.49%	0.004	0.83%
North Outfall	0.018	3.55%	0.008	1.58%	0.008	1.64%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

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RECEIVED

JUN 08 2012

BY:

06/05/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Date Received: 05/29/2012
Spectra Project: 2012050702

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0512407	1	Arsenic	0.020	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512407	1	Copper	0.0098	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512407	1	Zinc	0.0099	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512107	2	Arsenic	0.484	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512107	2	Copper	0.072	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512107	2	Zinc	0.232	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512207	3	Arsenic	0.037	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512207	3	Copper	0.0087	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512207	3	Zinc	0.0032	mg/L	EPA 200.8	Water	05/07/2012
TSM 0512414	4	Arsenic	0.018	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512414	4	Copper	0.0075	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512414	4	Zinc	0.011	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512114	5	Arsenic	0.295	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512114	5	Copper	0.054	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512114	5	Zinc	0.145	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512214	6	Arsenic	0.031	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512214	6	Copper	0.0074	mg/L	EPA 200.8	Water	05/14/2012
TSM 0512214	6	Zinc	0.0052	mg/L	EPA 200.8	Water	05/14/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/sej



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06/05/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Date Received: 05/29/2012
Spectra Project: 2012050702

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0512421	7	Arsenic	0.016	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512421	7	Copper	0.0066	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512421	7	Zinc	0.0064	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512121	8	Arsenic	0.409	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512121	8	Copper	0.109	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512121	8	Zinc	0.150	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512221	9	Arsenic	0.023	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512221	9	Copper	0.0041	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512221	9	Zinc	0.0028	mg/L	EPA 200.8	Water	05/21/2012
TSM 0512429	10	Arsenic	0.017	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512429	10	Copper	0.0077	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512429	10	Zinc	0.0055	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512129	11	Arsenic	0.188	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512129	11	Copper	0.054	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512129	11	Zinc	0.089	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512229	12	Arsenic	0.031	mg/L	EPA 200.8	Water	05/29/2012
TSM 0512229	12	Copper	0.0096	mg/L	EPA 200.8	Water	05/29/2012

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Steve Hibbs, Laboratory Manager
a8/scj

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06/05/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Date Received: 05/29/2012
Spectra Project: 2012050702

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM 0512229	12	Zinc	0.0054	mg/L	EPA 200.8	Water	05/29/2012

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Steve Hibbs, Laboratory Manager
a8/scj

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June 5, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012050702
Applies to Spectra #'s 1 thru 12

QUALITY CONTROL RESULTS ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested: 6/5/2012 Date Analyzed: 6/5/2012

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested: 6/5/2012 Date Analyzed: 6/5/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	47.41	94.8
Copper	50.0	48.71	97.4
Zinc	50.0	45.95	91.9

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 6/5/2012 Date Analyzed: 6/5/2012
Sample Spiked: 2012050702-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	20.00	50.0	68.04	96.1	71.87	103.7	7.7
Copper	9.85	50.0	53.56	87.4	56.65	93.6	6.8
Zinc	9.91	50.0	53.00	86.2	55.74	91.7	6.2

Recovery Limits 70-130%

RPD Limit 20

SPECTRA LABORATORIES

Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

2012050702

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO Tacoma Smelter		PROJECT NAME Pt. Ruston LLC		NO. OF CONTAINERS <i>15x Zinc</i>	REMARKS
SAMPLERS: (Signature) <i>Dale Lee</i>					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER
1 5/7/12	N.outfall	10:40	x		TSM 0512407
2 5/7/12	S.outfall	10:45	x		TSM 0512107
3 5/7/12	OSW-2	10:55	x		TSM 0512207
4 5/14/12	N.outfall	9:00	x		TSM 0512414
5 5/14/12	S.outfall	9:10	*		TSM 0512114
6 5/14/12	OSW-2	9:20	x		TSM 0512214
7 5/21/12	N.outfall	9:05	x		TSM 0512421
8 5/21/12	S.outfall	9:15	x		TSM 0512121
9 5/21/12	OSW-2	9:30	x		TSM 0512221
10 5/29/12	N.outfall	9:00	x		TSM 0512429
11 5/29/12	S.outfall	9:05	x		TSM 0512129
12 5/29/12	OSW-2	9:15	x		TSM 0512229
Relinquished (Signature) <i>Dale Lee</i>		Date/Time 5/29/12 14:30	Received by: (Signature) <i>RJ G</i>	Lab <i>Spectra</i>	Shipped via: FedEx, UPS or Other <i>Drop off</i>
Relinquished (Signature)		Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined _____					

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

OCF

LEACHATE

SAMPLING

DATA

SPECTRA Laboratories

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04/17/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Tacoma Smelter
Client ID: TSM041211
Sample Matrix: Water
Date Sampled: 04/11/2012
Date Received: 04/11/2012
Spectra Project: 2012040285
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	4.29	mg/L	EPA 200.7

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a6/scj

Page 1 of 1

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April 17, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: mg/L
Spectra Project: 2012040285
Applies to Spectra #'s 1

QUALITY CONTROL RESULTS ICP Metals - EPA Method 200.7 - Water

Method Blank

Date Digested: 4/17/2012 Date Analyzed: 4/17/2012

Element	CAS #	Result
Arsenic	7440-38-2	< 0.05

Blank Spike (LCS)

Date Digested: 4/17/2012 Date Analyzed: 4/17/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	1.0	1.073	107.3

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 4/13/2012 Date Analyzed: 4/13/2012
Sample Spiked: 2012040255-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	MSD RPD
Arsenic	0.000	1.0	1.032	103.2	1.067	106.7	3.3

Recovery Limits 75-125%

RPD Limit 20

Spectra Laboratories

Steve Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

20120402-25

PROJ. NO TACOMA Smelter		PROJECT NAME OCF-leachate tank pt Ruston LLC		NO. OF CONTAINERS 4	REMARKS
SAMPLERS: (Signature) <i>Z Schellie</i>					
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER	
4/11/12	OCF leachate	12:05	9	TSM 04/1211	1 X
Relinquished (Signature) <i>D. Dohler</i>		Date/Time 4/11/12 15:34	Received by: (Signature) <i>P. Dohler</i>	Lab <i>Spectra</i>	Shipped via: FedEx, UPS or Other Air Bill # <i>D-PP</i>
Relinquished (Signature)		Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
					Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ <i>Signature</i>

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

PERIMETER

AIR

MONITORING

DATA

(HIGH VOLUME)

SPECTRA Laboratories

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MAY 16 2012

05/14/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 04/23/2012
Spectra Project: 2012040535

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8590528	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/16/2012
8590528	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/16/2012
8590527	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/16/2012
8590527	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/16/2012
8590525	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/17/2012
8590525	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/17/2012
8590524	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/17/2012
8590524	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/17/2012
8590521	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/18/2012
8590521	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/18/2012
8590520	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/18/2012
8590520	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/18/2012
8590518	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/19/2012
8590518	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/19/2012
8590517	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/19/2012
8590517	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/19/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

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05/14/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 04/23/2012
Spectra Project: 2012040535

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8590515	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2012
8590515	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2012
8590514	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2012
8590514	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/20/2012
8590512	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2012
8590512	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2012
8590511	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2012
8590511	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/21/2012
8590504	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590504	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD



2012040535

5219 N. Shirley St., Suite 100
Phone: 253-752-2185
Tacoma, WA 98407
Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS		
AIR Monitors		Pt Ruston LLC (HI-VOL)					
SAMPLERS: (Signature)		<i>Z. Miller</i>					
DATE	STA #	TIME	COMP			GRAB	SAMPLE NUMBER
4/16/12	OCF-V1		X				8590528
4/16/12	OCF-NW		X				8590527
4/17/12	OCF-V1		X				8590525
4/17/12	OCF-NW		X				8590524
4/18/12	OCF-V1		X				8590521
4/18/12	OCF-NW		X				8590520
4/19/12	OCF-V1		X		8590518		
4/19/12	OCF-NW		X		8590517		
4/20/12	OCF-V1		X		8590515		
4/20/12	OCF-NW		X		8590514		
4/21/12	OCF-V1		X		8590512		
4/21/12	OCF-NW		X		8590511		
4/23/12	control		X		8590504		
4/23/12	HI-VOLUME SAMPLER LOG						
Relinquished (Signature)		Date/Time		Received by: (Signature)			
<i>Z. Miller</i>		4/23/12 14:23		<i>R. P. R.</i>			
Shipped via: FedEx, UPS or Other				Remarks			
Drop off				<i>Spectra</i>			
Air Bill #							
Relinquished (Signature)		Date/Time		Received by: (Signature)			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)			
Enclosed:				Date/Time			
<input type="checkbox"/> Parameter List with DTLs							
<input type="checkbox"/> Cover Letter							
Split Samples: []Accepted []Declined _____							
Signature _____							

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MAY 21 2012

05/16/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 04/30/2012
Spectra Project: 2012040679

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8590510	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590510	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590509	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590509	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590508	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590508	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/23/2012
8590507	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/24/2012
8590507	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/24/2012
8590506	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/24/2012
8590506	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/24/2012
8590505	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/24/2012
8590505	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/24/2012
8590503	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/25/2012
8590503	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/25/2012
8590502	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/25/2012
8590502	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/25/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/scj



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05/16/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 04/30/2012
Spectra Project: 2012040679

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8590501	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/25/2012
8590501	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/25/2012
8594200	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/26/2012
8594200	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/26/2012
8594199	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/26/2012
8594199	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/26/2012
8594198	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/26/2012
8594198	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/26/2012
8594197	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/27/2012
8594197	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/27/2012
8594196	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/27/2012
8594196	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/27/2012
8594195	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/27/2012
8594195	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/27/2012
8594188	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594188	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

7012040679

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS	
AIR MONITORING		(H-I-VOL) <i>Pt Ruston LLC</i>				
SAMPLERS: (Signature) <i>Debra L. Nelson</i>						
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER		
4/23/12	S.G		x	8590510	1 X	
4/23/12	OCF-VI		x	8590509	1 X	
4/23/12	OCF-NW		x	8590508	1 X	
4/24/12	S.G		x	8590507	1 X	
4/24/12	OCF-VI		x	8590506	1 X	
4/24/12	OCF-NW		x	8590505	1 X	
4/25/12	S.G		x	8590503	1 X	
4/25/12	OCF-VI		x	8590502	1 X	
4/25/12	OCF-NW		x	8590501	1 X	
4/26/12	S.G		x	8594200	1 X	
4/26/12	OCF-VI		x	8594199	1 X	
4/26/12	OCF-NW		x	8594198	1 X	
4/27/12	S.G		x	8594197	1 X	
4/27/12	OCF-VI		x	8594196	1 X	
4/27/12	OCF-NW		x	8594195	1 X	
Relinquished (Signature) <i>Debra L. Nelson</i>			Date/Time 4/30/12 13:48	Received by: (Signature) <i>Marie Galt</i>	Lab <i>Spectra</i>	Shipped via: FedEx, UPS or Other <i>Drop off</i> Air Bill # <i>Off</i>
Relinquished (Signature)			Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined _____ Signature						

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**
5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083



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MAY 24 2012

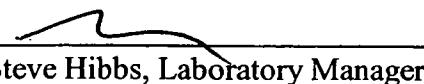
05/22/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/07/2012
Spectra Project: 2012050185

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594194	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594194	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594193	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594193	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594192	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594192	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	04/30/2012
8594191	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/01/2012
8594191	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/01/2012
8594190	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/01/2012
8594190	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/01/2012
8594189	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/01/2012
8594189	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/01/2012
8594187	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/02/2012
8594187	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/02/2012
8594186	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/02/2012
8594186	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/02/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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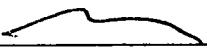
05/22/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/07/2012
Spectra Project: 2012050185

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594185	9	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/02/2012
8594185	9	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/02/2012
8594184	10	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/03/2012
8594184	10	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/03/2012
8594183	11	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/03/2012
8594183	11	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/03/2012
8594182	12	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/03/2012
8594182	12	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/03/2012
8594181	13	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/04/2012
8594181	13	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/04/2012
8594180	14	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/04/2012
8594180	14	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/04/2012
8594179	15	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/04/2012
8594179	15	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/04/2012
8594178	16	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	05/06/2012
8594178	16	Lead	< 0.05	µg/m³	SW846 6010B	Filter	05/06/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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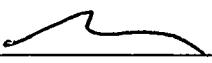
05/22/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/07/2012
Spectra Project: 2012050185

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594177	17	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/06/2012
8594177	17	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/06/2012
8594176	18	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/06/2012
8594176	18	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/06/2012
8594169	19	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594169	19	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS
<i>AIR Monitoring</i>		(H1-004) <i>Pt Ruston LCC</i>		COMP	GRAB		
DATE	STA #	TIME		SAMPLE NUMBER			
4/30/12	S-G		x	8594194		1	x
4/30/12	OCF-VI		x	8594193		1	x
4/30/12	OCF-NW		x	8594192		1	x
5/1/12	S-G		x	8594191		1	x
5/1/12	OCF-VI		x	8594190		1	x
5/1/12	OCF-NW		x	8594189		1	x
5/2/12	S-G		x	8594187		1	x
5/2/12	OCF-VI		x	8594186		1	x
5/2/12	OCF-NW		x	8594185		1	x
5/3/12	S-G		x	8594184		1	x
5/3/12	OCF-VI		x	8594183		1	x
5/3/12	OCF-NW		x	8594182		1	x
5/4/12	S-G		x	8594181		1	x
5/4/12	OCF-VI		x	8594180		1	x
5/4/12	OCF-NW		x	8594179		1	x
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab	Shipped via: FedEx, UPS or Other
<i>Jellie Lee</i>				5/7/12 14:36		<i>Spectra</i>	<i>Droff off</i>
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
					<i>Marie Holt</i>	<i>5-7-12 2:33</i>	<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined _____							
Signature							

CHAIN OF CUSTODY RECORD



5219 N. Shirley St., Suite 100
Phone: 253-752-2185
Tacoma, WA 98407
Fax: 253-752-7083

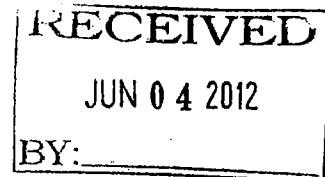
2012050185

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS		
AIR MONITORING		(HI-VOL) Pt Ruston LLC					
SAMPLERS: (Signature)		<i>Seth Klee</i>					
DATE	STA #	TIME	COMP			SAMPLE NUMBER	
5/6/12	SG		X			8594178	
5/6/12	OCE-VI		X			8594177	
5/6/12	OCE-NW		X			8594176	
5/7/12	Control					8594169	
5/7/12	HI-VOLUME SAMPLER LOG						
Relinquished (Signature)		Date/Time		Received by: (Signature)			
<i>Seth Klee</i>		5/7/12 14:30		Lab Spectra Shipped via FedEx, UPS or Other <i>Drop off</i> Air Bill #			
Relinquished (Signature)		Date/Time		Received by: (Signature)			
				Remarks			
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)			
				<i>Marcie Holt</i>			
				Date/Time <i>2:33</i> 5-7-12	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter		
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ <i>Signature</i>							



SPECTRA Laboratories

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05/31/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/14/2012
Spectra Project: 2012050343

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594175	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594175	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594174	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594174	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594173	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594173	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/07/2012
8594172	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/08/2012
8594172	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/08/2012
8594171	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/08/2012
8594171	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/08/2012
8594170	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/08/2012
8594170	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/08/2012
8594168	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/09/2012
8594168	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/09/2012
8594167	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/09/2012
8594167	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/09/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj



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05/31/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/14/2012
Spectra Project: 2012050343

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594166	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/09/2012
8594166	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/09/2012
8594165	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/10/2012
8594165	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/10/2012
8594164	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/10/2012
8594164	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/10/2012
8594163	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/10/2012
8594163	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/10/2012
8594162	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/11/2012
8594162	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/11/2012
8594161	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/11/2012
8594161	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/11/2012
8594160	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/11/2012
8594160	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/11/2012
8594153	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594153	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**

 5219 N. Shirley St., Suite 100 Tacoma, WA 98407
 Phone: 253-752-2185 Fax: 253-752-7083

2012050343

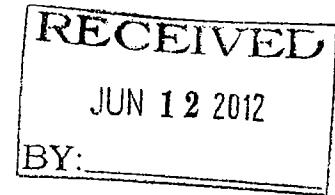
PROJ. NO		PROJECT NAME		REMARKS		
AIR Monitoring		Pt Ruston LLC (HI VOL)				
SAMPLERS: (Signature) <i>Zach Miller</i>						
DATE	STA #	TIME	COMP GRAB		SAMPLE NUMBER	NO. OF CONTAINERS
5/6/12	S.G		x		8594175	1 X
5/7/12	OCF-VI		x		8594174	1 X
5/7/12	OCF-NW		x		8594173	1 X
5/8/12	S.G		x		8594172	1 X
5/8/12	OCF-VI		1		8594171	1 X
5/8/12	OCF-NW		x		8594170	1 X
5/9/12	S.G		x	8594168	1 X	
5/9/12	OCF-VI		y	8594167	1 X	
5/9/12	OCF-NW		x	8594166	1 X	
5/10/12	S.G		x	8594165	1 X	
5/10/12	OCF-VI		x	8594164	1 X	
5/10/12	OCF-NW		x	8594163	1 X	
5/11/12	S.G		x	8594162	1 X	
5/11/12	OCF-VI		x	8594161	1 X	
5/11/12	OCF-NW		x	8594160	1 X	
Relinquished (Signature) <i>Zach Miller</i>			Date/Time 5/14/12 13:25	Received by: (Signature) <i>Not IP</i>	Lab Spectra	Shipped via: FedEx, UPS or Other Drop Off Air Bill # <u>OFF</u>
Relinquished (Signature)			Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
					Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____	Signature

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**
5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

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06/07/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/22/2012
Spectra Project: 2012050576

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594159	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594159	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594158	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594158	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594157	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594157	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/14/2012
8594156	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/15/2012
8594156	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/15/2012
8594155	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/15/2012
8594155	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/15/2012
8594154	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/15/2012
8594154	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/15/2012
8594152	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/16/2012
8594152	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/16/2012
8594151	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/16/2012
8594151	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/16/2012

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj



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06/07/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/22/2012
Spectra Project: 2012050576

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594150	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/16/2012
8594150	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/16/2012
8594149	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/17/2012
8594149	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/17/2012
8594148	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/17/2012
8594148	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/17/2012
8594147	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/17/2012
8594147	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/17/2012
8594146	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/18/2012
8594146	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/18/2012
8594145	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/18/2012
8594145	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/18/2012
8594144	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/18/2012
8594144	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/18/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**
5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

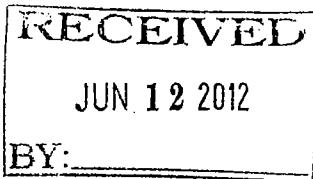
2012050574

PROJ. NO		PROJECT NAME															
AIR MONTAINE		(HI-VOL)		Pt Ruston LLC													
SAMPLERS: (Signature)												REMARKS					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER										NO. OF CONTAINERS		
5/14/12	S.G.		x		8594159										1	x	
5/14/12	OCE.W		x		8594158										1	x	
5/14/12	OCE.NW		x		8594157										1	x	
5/15/12	S.G.		x		8594156										1	x	
5/15/12	OCE.VI		x		8594155										1	x	
5/15/12	OCE.NW		x		8594154										1	x	
5/16/12	S.G.		x		8594152										1	x	
5/16/12	OCE.W		x		8594151										1	x	
5/16/12	OCE.NW		x		8594150										1	x	
5/17/12	S.G.		x		8594149										1	x	
5/17/12	OCE.VI		x		8594148										1	x	
5/17/12	OCE.NW		x		8594147										1	x	
5/18/12	S.G.		x		8594146										1	x	
5/18/12	OCE.VI		x		8594145										1	x	
5/18/12	OCE.NW		x		8594144										1	x	
Relinquished (Signature)				Date/Time		Received by: (Signature)								Lab	Shipped via: FedEx, UPS or Other <u>Drop off</u> Air Bill # <u>off</u>		
<u>Zell Miller</u>				5/21/12 14:22										<u>S. Octavia</u>			
Relinquished (Signature)				Date/Time		Received by: (Signature)								Remarks			
Relinquished (Signature)				Date/Time		Received for Laboratory by: (Signature)								Date/Time	Enclosed:		
						<u>Maree Holt</u>								5-22-12 8:20 AM	<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter		
Split Samples: [] Accepted [] Declined _____																Signature	



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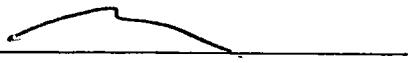
06/08/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/29/2012
Spectra Project: 2012050703

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594143	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/21/2012
8594143	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/21/2012
8594142	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/21/2012
8594142	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/21/2012
8594141	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/21/2012
8594141	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/21/2012
8594140	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/22/2012
8594140	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/22/2012
8594139	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/22/2012
8594139	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/22/2012
8594138	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/22/2012
8594138	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/22/2012
8594137	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/23/2012
8594137	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/23/2012
8594136	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/23/2012
8594136	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/23/2012

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Steve Hibbs, Laboratory Manager
a8/scj



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06/08/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 05/29/2012
Spectra Project: 2012050703

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594135	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/23/2012
8594135	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/23/2012
8594134	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/24/2012
8594134	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/24/2012
8594133	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/24/2012
8594133	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/24/2012
8594132	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/24/2012
8594132	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/24/2012
8594131	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/25/2012
8594131	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/25/2012
8594130	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/25/2012
8594130	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/25/2012
8594129	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/25/2012
8594129	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/25/2012
8594122	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	05/29/2012
8594122	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	05/29/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

2012050703

**POINT
RUSTON**
 5219 N. Shirley St., Suite 100 Tacoma, WA 98407
 Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS		
AIR monitoring		(Hi-VOL) Pt. Ruston LLC					
SAMPLERS: (Signature)		<i>Tolleran</i>					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
5/21/12	S-G		X		8594143	1 X	
5/21/12	OCE-VI		X		8594142	1 X	
5/21/12	OCE-NW		X		8594141	1 X	
5/22/12	S-G		X		8594140	1 X	
5/22/12	OCE-VI		X		8594139	1 X	
5/22/12	OCE-NW		X		8594138	1 X	
5/23/12	S-G		X		8594137	1 X	
5/23/12	OCE-VI		X		8594136	1 X	
5/23/12	OCE-NW		X		8594135	1 X	
5/24/12	S-G		X		8594134	1 X	
5/24/12	OCE-VI		X		8594133	1 X	
5/24/12	OCE-NW		X		8594132	1 X	
5/25/12	S-G		X		8594131	1 X	
5/25/12	OCE-VI		X		8594130	1 X	
5/25/12	OCE-NW		X		8594129	1 X	
Relinquished (Signature)				Date/Time	Received by: (Signature)	Lab	Shipped via: FedEx, UPS or Other
<i>Tolleran</i>				5/29/12 14:30	<i>KLR</i>	Spectra	Air Bill # <i>D9P</i>
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
							<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____							
Signature							

CHAIN OF CUSTODY RECORD

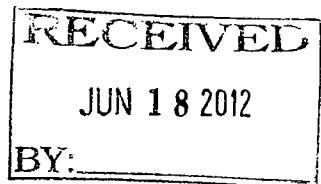
POINT RUSTON

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Phone: 253-752-2185 Fax: 253-752-7083



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06/13/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 06/04/2012
Spectra Project: 2012060058

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594128	1	Arsenic	0.00058	µg/m3	SW846 6020A	Filter	05/29/2012
8594128	1	Lead	0.0030	µg/m3	SW846 6020A	Filter	05/29/2012
8594127	2	Arsenic	0.0022	µg/m3	SW846 6020A	Filter	05/29/2012
8594127	2	Lead	0.0047	µg/m3	SW846 6020A	Filter	05/29/2012
8594126	3	Arsenic	0.0038	µg/m3	SW846 6020A	Filter	05/29/2012
8594126	3	Lead	0.0056	µg/m3	SW846 6020A	Filter	05/29/2012
8594125	4	Arsenic	0.0038	µg/m3	SW846 6020A	Filter	05/30/2012
8594125	4	Lead	0.0081	µg/m3	SW846 6020A	Filter	05/30/2012
8594124	5	Arsenic	0.0036	µg/m3	SW846 6020A	Filter	05/30/2012
8594124	5	Lead	0.0074	µg/m3	SW846 6020A	Filter	05/30/2012
8594123	6	Arsenic	0.0025	µg/m3	SW846 6020A	Filter	05/30/2012
8594123	6	Lead	0.0065	µg/m3	SW846 6020A	Filter	05/30/2012
8594121	7	Arsenic	0.0015	µg/m3	SW846 6020A	Filter	05/31/2012
8594121	7	Lead	0.0033	µg/m3	SW846 6020A	Filter	05/31/2012
8594120	8	Arsenic	0.0011	µg/m3	SW846 6020A	Filter	05/31/2012
8594120	8	Lead	0.0030	µg/m3	SW846 6020A	Filter	05/31/2012

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Steve Hibbs, Laboratory Manager
a8/scj



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06/13/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 06/04/2012
Spectra Project: 2012060058

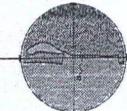
<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8594119	9	Arsenic	0.00030	µg/m3	SW846 6020A	Filter	05/31/2012
8594119	9	Lead	0.0049	µg/m3	SW846 6020A	Filter	05/31/2012
8594118	10	Arsenic	0.0010	µg/m3	SW846 6020A	Filter	06/01/2012
8594118	10	Lead	0.0033	µg/m3	SW846 6020A	Filter	06/01/2012
8594117	11	Arsenic	0.0010	µg/m3	SW846 6020A	Filter	06/01/2012
8594117	11	Lead	0.0028	µg/m3	SW846 6020A	Filter	06/01/2012
8594116	12	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	06/01/2012
8594116	12	Lead	0.00048	µg/m3	SW846 6020A	Filter	06/01/2012
8594109	13	Arsenic	< 0.00015	µg/m3	SW846 6020A	Filter	06/04/2012
8594109	13	Lead	< 0.00015	µg/m3	SW846 6020A	Filter	06/04/2012

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

058
20120601POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		(H1-VOL)		NO. OF CONTAINERS	REMARKS
Air Monitoring		Pt Ruston LLC					
SAMPLERS: (Signature) <i>Zellelen</i>							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
5/29/12	S.G	-	x		8594128	1	x
5/29/12	OCF-VI		x		8594127	1	x
5/29/12	OCF-NW		x		8594126	1	x
5/30/12	S.G		x		8594125	1	x
5/30/12	OCF-VI		x		8594124	1	x
5/30/12	OCF-NW		x		8594123	1	x
5/31/12	S.G		x		8594121	1	x
5/31/12	OCF-VI		x		8594120	1	x
5/31/12	OCF-NW		x		8594119	1	x
6/1/12	S.G		x		8594118	1	x
6/1/12	OCF-VI		x		8594117	1	x
6/1/12	OCF-NW		x		8594116	1	x
6/4/12	Control				8594109	1	x
6/4/12	H1-VOLUME SAMPLER LOG						
Relinquished (Signature) <i>Zellelen</i>			Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other
			6/4/12 15:22	<i>P.W. R.</i>		<i>Spectra</i>	<i>Droff</i>
Relinquished (Signature)			Date/Time	Received by: (Signature)		Remarks	
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:
							<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined _____ Signature							

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

PERSONAL
AIR
MONITORING
DATA
(EXPOSURE EVALUATIONS)



SPECTRA Laboratories

MAY 21 2012

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05/16/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Water Walk RA
Sample Matrix: Air Cassette
Date Sampled: 05/09/2012
Date Received: 05/10/2012
Spectra Project: 2012050298

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
050912-181	1	Arsenic	0.407	µg/m3	SW846 6020A
050912-181	1	Lead	0.348	µg/m3	SW846 6020A
050912-646	2	Arsenic	0.412	µg/m3	SW846 6020A
050912-646	2	Lead	1.72	µg/m3	SW846 6020A
050912-123	3	Arsenic	0.147	µg/m3	SW846 6020A
050912-123	3	Lead	0.120	µg/m3	SW846 6020A
050912-719	4	Arsenic	0.191	µg/m3	SW846 6020A
050912-719	4	Lead	0.129	µg/m3	SW846 6020A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/scj



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May 16, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012050298
Applies to Spectra #'s 1 thru 4

QUALITY CONTROL RESULTS

ICP-MS Metals - SW846 6020A - Air Filter

Method Blank

Date Digested: 5/16/2012 Date Analyzed: 5/16/2012

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Lead	7439-92-1	< 0.5

Blank Spike (LCS)

Date Digested: 5/16/2012 Date Analyzed: 5/16/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	100.0	99.80	99.8
Lead	100.0	93.44	93.4

LCS Recovery limits 80-120%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 5/16/2012 Date Analyzed: 5/16/2012

Sample Spiked: Blank

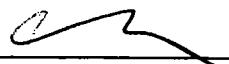
Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	0.00	100.0	99.18	99.2	98.03	98.0	1.2
Lead	0.00	100.0	101.50	101.5	97.94	97.9	3.6

Comment: Blank spikes applied due to insufficient sample. (1 filter)

Recovery Limits 75-125%

RPD Limit 20

SPECTRA LABORATORIES



Steven G. Hibbs

Laboratory Manager

CHAIN OF CUSTODY RECORD

POINT
RUSTON

5219 N. Shirley St., Suite 100
Phone: 253-752-2185
Tacoma, WA 98407
Fax: 253-752-7083

2012050298

PROJ. NO WATERWALK RA		PROJECT NAME personal air monitoring Pt Ruston Icc		NO. OF CONTAINERS <i>1 1 1 1 2</i>	REMARKS <i>lug filter precision</i>
SAMPLERS: (Signature) <i>Z. Hob</i>					
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER	
5/9/12			X	050912-181	1 X
5/9/12			X	050912-646	1 X
5/9/12			X	050912-123	1 X
5/9/12			X	050912-719 X	1 X
5/10/12				SAMPLE LOG INFORMATION SHEET	2
<i>CO</i>					
Relinquished (Signature) <i>Z. Hob</i>		Date/Time 5/10/12 13:35	Received by: (Signature) <i>R. H.</i>		Lab Spectra
Relinquished (Signature)		Date/Time	Received by: (Signature)		Shipped via: FedEx, UPS or Other <i>Drop off</i> Air Bill #
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time
					Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
					Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____ <i>Signature</i>

RECEIVED
MAY 31 2012
BY:

SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

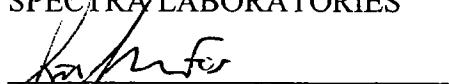
05/29/2012

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Water Walk RA
Sample Matrix: Air Cassette
Date Sampled: 05/15/2012
Date Received: 05/16/2012
Spectra Project: 2012050397

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
051512-123	1	Arsenic	0.322	µg/m3	SW846 6020A
051512-123	1	Lead	0.302	µg/m3	SW846 6020A
051512-646	2	Arsenic	0.211	µg/m3	SW846 6020A
051512-646	2	Lead	0.178	µg/m3	SW846 6020A
051512-181	3	Arsenic	0.090	µg/m3	SW846 6020A
051512-181	3	Lead	0.083	µg/m3	SW846 6020A
051512-719	4	Arsenic	0.192	µg/m3	SW846 6020A
051512-719	4	Lead	0.253	µg/m3	SW846 6020A

SPECTRA/LABORATORIES


Steve Hibbs, Laboratory Manager

a7/scj



SPECTRA Laboratories

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

May 29, 2012

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2012050397
Applies to Spectra #'s 1 thru 4

QUALITY CONTROL RESULTS

ICP-MS Metals - SW846 6020A - Air Filter

Method Blank

Date Digested: 5/29/2012 Date Analyzed: 5/29/2012

Element	CAS #	Result
Arsenic	7440-38-2	< 0.5
Lead	7439-92-1	< 0.5

Blank Spike (LCS)

Date Digested: 5/29/2012 Date Analyzed: 5/29/2012

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	100.0	101.30	101.3
Lead	100.0	102.60	102.6

LCS Recovery limits 80-120%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 5/29/2012 Date Analyzed: 5/29/2012
Sample Spiked: Blank

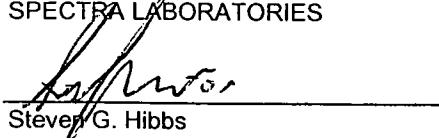
Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	0.00	100.0	98.81	98.8	96.43	96.4	2.4
Lead	0.00	100.0	99.38	99.4	97.77	97.8	1.6

Comment: Blank spikes applied due to insufficient sample. (1 filter)

Recovery Limits 75-125%

RPD Limit 20

SPECTRA LABORATORIES


Steven G. Hibbs

Laboratory Manager

CHAIN OF CUSTODY RECORD

2012050397

**POINT
RUSTON**
5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7040

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

METHANE
MONITORING
DATA

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
				Reading	TWA	STEL		
1	Calibrate	5/16/2012 8:41	19	0	0	0	20.9	0
1	Calibrate	5/16/2012 8:42	20	0	0	0	20.9	0
2	Calibrate	5/16/2012 8:45	21	0	0	0	20.9	0
3	2BW001	5/16/2012 8:59	20	0	0	0	20.9	0
3	2BW001	5/16/2012 9:00	20	0	0	0	20.5	0
3	2BW001	5/16/2012 9:01	21	0	0	0	20.4	0
3	2BW001	5/16/2012 9:02	21	0	0	0	20.4	0
3	2BW001	5/16/2012 9:03	21	0	0	0	20.4	0
3	2BW001	5/16/2012 9:04	21	0	0	0	20.4	0
3	2BW001	5/16/2012 9:05	21	0	0	0	20.4	0
3	2BW001	5/16/2012 9:06	21	0	0	0	20.4	0
3	2BW001	5/16/2012 9:07	21	0	0	0	20.4	0
4	2BW002	5/16/2012 9:10	20	0	0	0	20.9	0
4	2BW002	5/16/2012 9:11	20	0	0	0	20.9	0
4	2BW002	5/16/2012 9:12	20	0	0	0	20.9	0
4	2BW002	5/16/2012 9:13	20	0	0	0	20.7	0
4	2BW002	5/16/2012 9:14	21	0	0	0	20.7	0
4	2BW002	5/16/2012 9:15	21	0	0	0	20.7	0
4	2BW002	5/16/2012 9:16	21	0	0	0	20.7	0
4	2BW002	5/16/2012 9:17	21	0	0	0	20.7	0
4	2BW002	5/16/2012 9:18	21	0	0	0	20.7	0
4	2BW002	5/16/2012 9:19	21	0	0	0	20.7	0
5	2BW003	5/16/2012 9:22	21	0	0	0	20.9	0
5	2BW003	5/16/2012 9:23	21	0	0	0	19.7	0
5	2BW003	5/16/2012 9:24	22	0	0	0	19.6	0
5	2BW003	5/16/2012 9:25	22	0	0	0	19.6	0
5	2BW003	5/16/2012 9:26	22	0	0	0	19.6	0
5	2BW003	5/16/2012 9:27	22	0	0	0	19.6	0
5	2BW003	5/16/2012 9:28	22	0	0	0	19.6	0
5	2BW003	5/16/2012 9:29	23	0	0	0	19.5	0
5	2BW003	5/16/2012 9:30	23	0	0	0	19.5	0
5	2BW003	5/16/2012 9:31	23	0	0	0	19.6	0
6	2BW004	5/16/2012 9:34	22	0	0	0	20.5	0
6	2BW004	5/16/2012 9:35	22	0	0	0	19.4	0
6	2BW004	5/16/2012 9:36	23	0	0	0	19.4	0
6	2BW004	5/16/2012 9:37	23	0	0	0	19.4	0
6	2BW004	5/16/2012 9:38	23	0	0	0	19.5	0
6	2BW004	5/16/2012 9:39	23	0	0	0	19.5	0
6	2BW004	5/16/2012 9:40	23	0	0	0	19.5	0
6	2BW004	5/16/2012 9:41	23	0	0	0	19.5	0
6	2BW004	5/16/2012 9:42	23	0	0	0	19.5	0
7	2BW004	5/16/2012 9:44	23	0	0	0	19.5	0
8	BBB289	5/16/2012 9:49	22	0	0	0	20.6	0
8	BBB289	5/16/2012 9:50	22	0	0	0	17.0	0
8	BBB289	5/16/2012 9:51	23	0	0	0	17.4	0
8	BBB289	5/16/2012 9:52	23	0	0	0	17.5	0
8	BBB289	5/16/2012 9:53	23	0	0	0	17.5	0
8	BBB289	5/16/2012 9:54	23	0	0	0	17.6	0
9	BBB289	5/16/2012 9:56	23	0	0	0	17.6	0

Month of May 2012

METHANE MONITORING - DATA LOG

Point Ruston, LLC

Building 2B

Period	Well Location	Date Time	Temperature °C	Hydrogen Sulfide			Oxygen Reading	Combustible LEL (Methane) Reading
				Reading	TWA	STEL		
9	BBB289	5/16/2012 9:57	23	0	0	0	17.6	0
9	BBB289	5/16/2012 9:58	23	0	0	0	17.6	0
9	BBB289	5/16/2012 9:59	23	0	0	0	17.6	0
10	BBB290	5/16/2012 10:02	22	0	0	0	20.1	0
10	BBB290	5/16/2012 10:03	23	0	0	0	14.3	0
10	BBB290	5/16/2012 10:04	23	0	0	0	14.1	0
10	BBB290	5/16/2012 10:05	23	0	0	0	14.1	0
10	BBB290	5/16/2012 10:06	23	0	0	0	14.1	0
10	BBB290	5/16/2012 10:07	24	0	0	0	14.1	0
10	BBB290	5/16/2012 10:08	24	0	0	0	14.1	0
10	BBB290	5/16/2012 10:09	24	0	0	0	14.0	0
10	BBB290	5/16/2012 10:10	24	0	0	0	14.0	0
10	BBB290	5/16/2012 10:11	24	0	0	0	14.0	0
11	BCN914	5/16/2012 10:15	24	0	0	0	20.3	0
11	BCN914	5/16/2012 10:16	24	0	0	0	18.1	0
11	BCN914	5/16/2012 10:17	25	0	0	0	18.2	0
11	BCN914	5/16/2012 10:18	25	0	0	0	18.2	0
11	BCN914	5/16/2012 10:19	25	0	0	0	18.2	0
11	BCN914	5/16/2012 10:20	25	0	0	0	18.2	0
11	BCN914	5/16/2012 10:21	25	0	0	0	18.2	0
11	BCN914	5/16/2012 10:22	26	0	0	0	18.2	0
11	BCN914	5/16/2012 10:23	26	0	0	0	18.2	0
12	BCN915	5/16/2012 10:28	25	0	0	0	20.4	0
12	BCN915	5/16/2012 10:29	26	0	0	0	15.3	0
12	BCN915	5/16/2012 10:30	26	0	0	0	15.2	0
12	BCN915	5/16/2012 10:31	26	0	0	0	15.2	0
12	BCN915	5/16/2012 10:32	26	0	0	0	15.2	0
12	BCN915	5/16/2012 10:33	27	0	0	0	15.2	0
12	BCN915	5/16/2012 10:34	27	0	0	0	15.1	0
12	BCN915	5/16/2012 10:35	27	0	0	0	15.1	0
12	BCN915	5/16/2012 10:36	28	0	0	0	15.1	0
12	BCN915	5/16/2012 10:37	28	0	0	0	15.1	0
13	Sync	5/16/2012 11:41	21	0	0	0	20.9	0

Month of May 2012

Gas Monitoring Data Form / Calibration Worksheet

Project Name: Building 2B

Date of Sampling: 5/16/12

Name of Sample Collector: Dan Wilborek

Gas Meter Information

Manufacturer:	<u>Industrial Scientific</u>	Model:	<u>M40 / SP40</u>	Serial Number:	<u>0806049-984</u>
Factory/Service Center Calibration Date of Gas Monitor:	<u>November 1, 2011</u>		Pump Rate of Gas Meter:	<u>.5 SCFH (0.25 LPM)</u>	

Calibration Canister Information

Canister I.D. Lot: 12/22 35 Cyl: 9 Calibration Gas: O₂, LEL, CO, H₂S, N Canister Exp.: OCT 2012

PRE-SAMPLE CALIBRATION:		Date:	5/16/12		Time: 8:40				
Sensor SN	Sensor Type	Gas Type	Span Gas	Span Reserve	Passed/Failed	Alarm Low	Alarm High	Alarm TWA	Alarm STEL
806862459	Combustible-LEL	Methane	50	95	/				
805823354	Hydrogen Sulfide	Hydrogen Sulfide	25	52	/				
180339703081	Oxygen	Oxygen	19	32.1	/				

SAMPLING RECORD:

Temperature: 54.0 Barometric Pressure: 30.10 Ground Conditions: wet

Precipitation: 0 Tidal Conditions: LOW TIDE 9:21 AM

Wind Speed: 5 Direction: SW Other Relevant Conditions:

Location Well ID#	Sample Tube Purge (Y/N)	Start Time	Stop Time	Initial % LEL	Stabilized % LEL	% CH ₄ By Volume	% O ₂	H ₂ S (ppm)	Notes
2BW001		8:56	9:06	0	0	0	20.4	0	
2BW002		9:08	9:18	0	0	0	20.7	0	
2BW003		9:20	9:30	0	0	0	19.6	0	
2BW004		9:32	9:42	0	0	0	19.5	0	
BBB289		9:47	9:57	0	0	0	17.6	0	
BBB290		10:00	10:10	0	0	0	14.0	0	
BCN914		10:12	10:22	0	0	0	18.2	0	
BCN915		10:25	10:35	0	0	0	15.1	0	

Certification:

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct.

Dan Wilborek
SIGNATURE:

5/16/12
DATE:

Monthly Report 192, May 2012
Operable Unit 02
Asarco Tacoma Smelter Site

MISCELLANEOUS

TEST

SAMPLING

DATA

(SOIL – DEBRIS – WATER – ETC.)

MRC Construction, LLC (XRF)

Baltimore Excavation
(Stock Piles From Baltimore Street Excavation)

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	5/3/2012 11:11	BULK	90	ppm	Final	BALTSP-FYI-02-A1	BALTSP	A	2		33.46	23.93
5	5/3/2012 12:17	BULK	90	ppm	Final	BALTSP-FYI-03-A1	BALTSP	A	3		22.86	13.16

MRC Construction, LLC (XRF)

Baltimore Excavation (BNSF Slope)

(Proposed Trench location to tie in Baltimore piping to BNSF piping)

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
4	5/25/2012 13:09	BULK	90	ppm	Final	BALTSLP-FYI-02-B1	BALTSLP	B	2		212.02	474.29

MRC Construction, LLC (XRF)

Baltimore Excavation (BNSF Slope)

(Base of Trench Excavation)

Sample Date (or) Reading No.	Sample/Reading Time	Type	Duration	Units	Sequence	Sample Number	Site Code	Sample Depth	Subunit	Sample Type	Pb	As
3	5/30/2012 11:33	BULK	90	ppm	Final	BALTSLP-FYI-03-M1	BALTSLP	M	3		22.31	11.6